

Scrutiny Comments on examination of the Review of Mining Plan with Progressive Mine Closure Plan for Lunkaransar Selenite mine (ML no. 02/1997) over an area 145.00 hectare located near village – Lunkaransar, Tehsil – Lunkaransar District – Bikaner submitted on behalf of M/s Rajasthan State Mines & Minerals Ltd. under rule17(2) and rule 23 of MCDR 2017.

1. On cover page the lease period has not been given correctly. date given 01.11.1997 is the date of third renewal not the date of execution.
2. It is noted that mining operation are discontinued in the mine since 2013. The Section 4A4 of MMDR Act 1957 stipulates that mining lease shall lapse as expiring of the period of 2 years from the date of discontinuance of the mining operations. In view of it please enclose a copy of State Govt. order regarding revival of the mining lease.
3. In introduction chapter the details regarding date of execution and subsequent renewal details should be given. The justification for not submitting mining plan to Authorised agencies (i.e IBM) for approval may also be given.
4. Par 2.0a may also be corrected and give date of first grant. Para 2.0 b) Khasra details i.e Khasra no. under Govt. land and under private land may be given clearly.
5. A Idgah observed in the lease area but it is not shown on surface plan and other relevant plan, should be incorporated in text and all the relevant plans.
6. Coordinate given under para 2.0(b) is not matched with the coordinate given under annexure - 17(verified coordinate for mines by DMG)
7. Para 3.3(Review of earlier approval proposal)
 - (i) Para 3.1 -Details of earlier approved mining plan/ scheme of mining should have been given in tabulated form with column as i)MP/SOM, ii)approval letter no iii) Validity period.
 - (ii) Under exploration it is mentioned that no additional exploration work was carried out. This is not acceptable as per MEMC 2015 and MCDR 2017 the whole area is to be proven up to G1 level.
 - (iii) The total of Year wise proposed production table is not correct.
 - (iv) The review of FA table is not given.
 - (v) Para 3.4 Status of compliance of violation letter issued by this office on 31/3/2018 is missing.
8. **Part –A Chapter 1.0 (Geology and Exploration)**
 - a) Chapter has not been prepared as per guideline.
 - b) It is existing mine, hence reserves and resources as per previous approved mining plan should be given first, than depletion and balance reserves may be given. If additional or fresh estimation of reserves than proper justification based on exploration carried out during last approved plan period should be given.

- c) The Lateral extension up to 75mts cannot be considered for proved reserves in absence of any exploratory pits or surface exposures. Only 50mts may be taken from exposed pit face. The reserves for whole mineralised area may be recalculated and categories as per UNFC.
- d) The reserves block under High-tension electrical line may be calculated separately and categories as per UNFC.
- e) Under para G future exploration programme- The justification for not giving the future exploration programme is not acceptable. Under this sub heading Future exploration programme, the programme for exploration of the whole area up to G1 level as per the rule 12(4) of MCDR, 2017, should be given. Also in future exploration programme the depth of bore hole/ exploratory pits may be kept till Mineral selenite encountered or limit of UPL.
- f) These proposals for exploration programme to prove reserves up to G1 level should be completed before 31 March 2019, as the lease is expiring on 31.3.2020. The programme of exploration should be given as per the Mineral (Evidence of Mineral Content) Rule, 2015 in the following format

Name of prospecting /exploration agency-	
i) Address-	
ii) E mails-	
iii) Phone /fax etc-	

FUTURE EXPLORATION PROGRAMME						
Year	UNFC axis	Area covered	No. of boreholes (Core/RC/DTH)	Grid interval	Depth(mRL/Level)	Total meterage
	G1					
	G2					
	G3					
	G4					

Under Subheading (j) : Under this subheading Reserve & Resources as per UNFC, the following information should also be given:

Geological Axis :--	Depth (mRL/ Level)	Area	Resource (Million)	Grade
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			Tonne)	
For G1 - Detailed exploration				
For G2 - General Exploration				
For G3 – Prospecting				
For G4- Reconnaissance				

FEASIBILITY AXIS :--	
Feasibility of mining	
Area considered non mineable under various items	
Mineral Reserves/ Resources Blocked /Non Mineable Category	
In G1 category in tonnes	
In G2 Category in tonnes	
In G3 category in tonnes	
In G4Category in tonnes	
Enclosed feasibility report	

ECONOMICAL AXIS	
Cost of production per tonnes of mineral estimated	
Average Ex- mine price for last three year period	
Comment on Economic viability	

Under subheading (k): under this sub-heading the following information should also be given:

- (i) The reserves depleted during the last plan period
- (ii) The reserve added after exploration during last plan period
- (iii) The final reserve & resources figure as per the table given below:

	UNFC Code	Quantity in million tonnes	Grade
A. Total Mineral Reserve			
Proved Mineral Reserve 111	111		
Probable mineral Reserve	121 and 122		
B. Total Remaining Resources			
Feasibility mineral Resource	211		

Prefeasibility mineral resource	221 and 222		
Measured mineral resource	331		
Indicated mineral resource	332		
Inferred mineral resource	333		
Reconnaissance mineral resource	334		
Total Reserves + Resources			

9. Part-A Chapter-2- Mining-

- i The no. and dimension of present pits are not given. ii The details regarding size of existing pit with number of benches and depth may be given
- iii The year wise layout of mine workings should also be described in brief indicating year wise working, excavation, development direction, indicating pit no. and supported with grid pattern
- iv All mining proposal should be supported with Grid references.
- v List of machinery deployed may be given with their specification and capacity.
- vi Para 5.3 The consolidated table showing the year-wise generation of ROM, Mineral, Waste, reject, topsoil and Ore to OB ratio is not given under the head,

Expected pit-wise as in table below :-

Year	Pit no	Overburden	ROM ore	Saleble ore	Subgrade Ore	Mineral Rejects	Ore to Overburden ratio
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- 10. Chapter 7.0 other information is also not as per guidelines. Site services, employment potential and OMS etc is not described.
- 11. Para 8.6 of PMCP. 81.51 hact area is reported as fully reclaimed cannot be considered, as during the field visit it is observed that about 1.7 hact area is not fully leveled and reclaimed , hence 1.7 hact area cannot be considered as fully reclaimed, Hence the FA table is not found correct may be revised accordingly. As per provision of Rule 27(1) of MCDR 2017 financial assurance co-terminus with mining plan period in favour of Regional Controller of Mines, IBM, Ajmer should be submitted in Original with a copy annexed in the documents.

11 Plans & sections;-

- i The date of survey is given as 8-12-2013 in all the plans and sections. This is almost 5 year old survey, Hence all the plans and sections should be prepared based on fresh survey.
 - ii Name and designation of persons who signed on plans and sections should be mentioned on each and every plans and sections.
 - iii The surface feature including Idgah may be incorporated in all the plans and sections.
 - iv Co-ordinate given on all the plans and sections are miss match with the co-ordinate given by State DMG officials.
 - v The surface plans are not updated with all the surface features.
 - vi Surface Geological plan & sections-. The UNFC code, UPL, surface features, Category of reserves, Dip and strike, Different zone of proved , probable reserve and other resources have not been marked on plan and section based on exploration so far carried out as per UNFC norm.
 - vii In environment plan all the surface feature including Idgah may be incorporated as per rule. The wind direction is also not clearly shown.
 - viii **Financial Area Assurance plan** . A financial assurance plan should be revised as per item 8.6 of PMCP.
- 12 All the above maps/plate will be properly colour index & duly attested and authorised persons with date of survey.
- 13 Each and every page of text and annexure should be signed by the authorised persons who prepared the mining plan.
